

UV disinfection in the August-Gaul School Gym

August Gaul School takes protective measures - in the fight against the virus

Viruses, bacteria and other microorganisms spread through tiny water droplets in the air, so-called aerosols. They can survive there for a long time and are transmitted from host to host. The risk is particularly high in rooms with many people - such as waiting rooms, offices, gyms or classrooms in schools. Often, the situation is aggravated by the fact that these rooms cannot be well ventilated or there is no central ventilation. Especially in winter, ventilation is also unpleasant: ideal conditions for viruses.

UV-C light is energy and very effective against viruses, bacteria and fungi. Especially viruses, such as the SARS-CoV-2 virus and its mutations are easily destroyed by it. They have only a thin lipid (fat) layer. This is easily penetrated by UV-C light and destroys the virus immediately.

A lot was demanded of all schools during the pandemic; teachers, students and parents had to react cautiously, prudently and flexibly. If classroom instruction is to be possible again in the new school year, caution is still called for. The Hanau city officials took innovative protective measures early on and equipped the gymnasium of the August Gaul School with highly efficient UV air purifiers before the end of the school year.

Physical exercise and regular physical education are very important for children, but they require special effort. In a school gymnasium, which is constantly used by different groups of people, simple ventilation through the windows is not enough or often simply not possible. Three Soluva Air M10 units disinfect the air in the August Gaul School Gym. To do this, the air flow in the Soluva Air M10 is treated with UV-C light, which immediately destroys the viruses. The clean air is then blown out again.

A special challenge for the installation of the air purification unit was to protect it from flying balls. To ensure that ball sports could still be played in the hall as usual, the Soluva UV air purifier was mounted on the wall and not on the ceiling. This is made possible by a special wall bracket, which can be supplied as an option with the equipment. A sturdy protective grille is used to protect against ball throwing.



The renowned Fraunhofer Institute for Building Physics has for the first time confirmed the effectiveness of air disinfection by means of closed UV-C air purification devices under real conditions for a classroom on the basis of an elaborate scientific application test. Heraeus UV-C air purification devices can reduce the virus load in closed rooms by over 99%.

The disinfecting effect of UV-C light has been confirmed in further tests, e.g. with the Hygiene institut biotech or the University Hospital Tübingen.

Advantages of UV-C air purification with Heraeus Soluva equipment:

- ✓ free from chemicals
- ✓ without filter
- ✓ low maintenance requirements
- ✓ without ozone and by-products
- ✓ no uncontrolled escape of UV-C-light
- ✓ no germ resistance formation

